

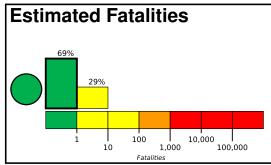


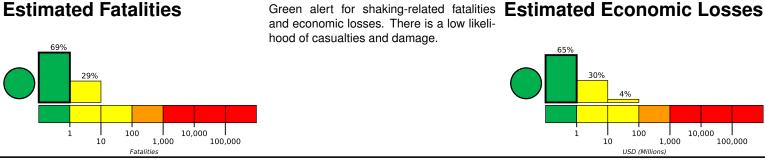


PAGER Version 4

Created: 2 hours, 5 minutes after earthquake

M 4.5, 7 km NW of Medford, Oklahoma Origin Time: 2022-01-31 17:10:20 UTC (Mon 11:10:20 local) Location: 36.8549° N 97.8002° W Depth: 9.1 km





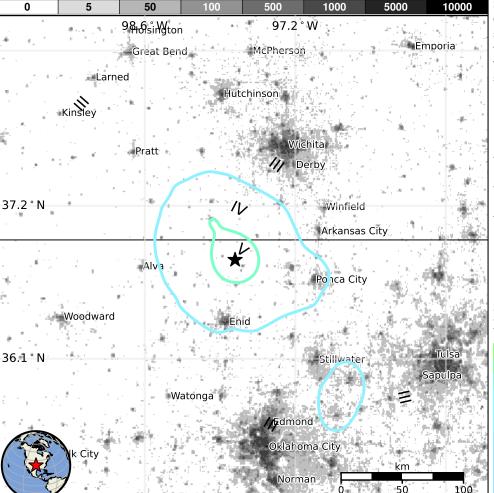
Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	3,813k*	170k	4k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan



PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/ok2022cedc#pager

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1974-02-15	260	4.6	IV(8k)	_
1997-09-06	273	4.5	V(3k)	_

Selected City Exposure

from Ge	eoNames.org	
MMI	City	Population
٧	Medford	1k
٧	Anthony	2k
IV	Caldwell	1k
IV	Harper	1k
IV	Chandler	3k
IV	Cushing	8k
III	Wichita	382k
Ш	Tulsa	392k
Ш	Norman	111k
Ш	Oklahoma City	580k
Ш	Broken Arrow	99k

bold cities appear on map.

(k = x1000)

Event ID: ok2022cedc